

Title (en)

Hybrid wireless communication system and method

Title (de)

Hybrides drahtloses Kommunikationssystem und Verfahren

Title (fr)

Système et procédé de communication hybride sans fil

Publication

EP 1763156 A3 20110928 (EN)

Application

EP 06120383 A 20060908

Priority

- KR 20060056033 A 20060621
- US 71526205 P 20050908

Abstract (en)

[origin: EP1763156A2] Disclosed is a hybrid wireless communication system and a communication method in the system. The system supports time and frequency division duplexing modes and includes a base station having a cellular communication range based on a cellular mode and mobile stations within the cellular communication range. The base station divides each available frequency resource into frames for communication, and each frame switches between a real-time service mode and a non-real-time service mode at a switching time within the frame. Communication is performed with the mobile stations within the cellular communication range via at least one of an uplink and a downlink in the real-time service mode of each frame according to the frequency division duplexing mode. Communication is performed with the mobile stations via the uplink and the downlink in the non-real-time service mode of each frame according to an ad hoc mode based on the time division duplexing mode.

IPC 8 full level

H04B 7/26 (2006.01); **H04W 72/04** (2009.01); **H04W 74/02** (2009.01); **H04W 72/10** (2009.01); **H04W 84/04** (2009.01); **H04W 88/04** (2009.01)

CPC (source: EP KR US)

H04B 7/2615 (2013.01 - EP KR US); **H04L 1/00** (2013.01 - KR); **H04L 1/0018** (2013.01 - EP US); **H04W 72/00** (2013.01 - EP KR US); **H04W 84/042** (2013.01 - KR); **H04W 84/12** (2013.01 - KR); **H04W 88/04** (2013.01 - KR); **H04W 88/10** (2013.01 - KR); **H04L 2001/0097** (2013.01 - EP US); **H04W 84/042** (2013.01 - EP US); **H04W 84/12** (2013.01 - EP US); **H04W 88/04** (2013.01 - EP US); **H04W 88/10** (2013.01 - EP US)

Citation (search report)

- [Y] EP 1168878 A2 20020102 - NTT DOCOMO INC [JP]
- [Y] OMIYI P E ET AL: "Maximising Spectral Efficiency in 3G with Hybrid Ad-Hoc UTRA TDD/UTRA FDD Cellular Mobile Communications", SPREAD SPECTRUM TECHNIQUES AND APPLICATIONS, 2004 IEEE EIGHTH INTERNAT IONAL SYMPOSIUM ON SYDNEY, AUSTRALIA 30 AUG.-2 SEPT. 2004, PISCATAWAY, NJ, USA,IEEE, 30 August 2004 (2004-08-30), pages 613 - 617, XP010755107, ISBN: 978-0-7803-8408-8, DOI: 10.1109/ISSSTA.2004.1371773

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1763156 A2 20070314; **EP 1763156 A3 20110928**; **EP 1763156 B1 20140416**; JP 2007074712 A 20070322; JP 4369453 B2 20091118; KR 101199752 B1 20121108; KR 20070029042 A 20070313; US 2007121531 A1 20070531; US 8126472 B2 20120228

DOCDB simple family (application)

EP 06120383 A 20060908; JP 2006221217 A 20060814; KR 20060056033 A 20060621; US 51778406 A 20060908